

## ABSTRACT

Multiple home agents for a home agent service provider network are implemented in a single computing platform in software as multiple virtual home agents. Each home agent is assigned or dedicated to a single virtual private network. Any number of home agents can be realized in the computing platform by multiple instantiations of a home agent program or code,  
5 and by providing unique IP addresses for each instantiation. Each home agent runs independently, and is independently configured and managed by the subscriber of the virtual private network service, freeing the service provider of having to manage and supervise low level processing tasks and customization features that the subscribers may want. In a representative embodiment, the computing platform comprises a router having a general  
10 purpose-computing platform.